



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	10/662,653-Conf. #9391
				Filing Date	September 15, 2003
				First Named Inventor	Michael P. Nowak
				Art Unit	2863
				Examiner Name	T. S. Lau
Sheet	1	of	1	Attorney Docket Number	
65858-0026/02-rASD-183					

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
TL	AA	US-5,850,469-A	12-15-1998	Martin et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
BA	-				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
TL	CA	PCT International Search Report (4 pages)			
TL	CB	Borgefors, Gunilla; "Hierarchical Chamfer Matching: A Parametric Edge Matching Algorithm"; IEEE Transactions On Pattern Analysis And Machine Intelligence; IEEE Inc., New York; Vol. 10, No. 6, November 1988; pgs. 849-865; XP002114858			
TL	CC	Cobzas, Dana, et al.; "Image-Based Localization With Depth-Enhanced Image Map"; PROC2003 INT.; IEEE Conf. Robotics and Automation; Vol. 2, September 14, 2003; pgs. 1570-1575, XP010667213			
TL	CD	Horn, Joachim, et al.; "Localization Of A Mobile Robot By Matching 3D-Laser-Range-Images And Predicted Sensor Images"; Intelligent Vehicles '94 Symposium, Paris, 24 October 1994; pgs. 345-350; XP010258393			
TL	CE	Zingaretti, P. et al.; "Image Segmentation For Appearance-Based Self-Localisation"; 11th International Conference On Image Analysis And Processing; September 26, 2001; pgs. 113-118; XP010561233			
TL	CF	Dudek, Gregory, et al.; "Vision-Based Robot Localization Without Explicit Object Models"; Proceedings of the 1996 IEEE International Conference on Robotics And Automation; Minneapolis, MN; April 22-28, 1996; pgs. 76-82; XP010162733			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	7yuan	Date Considered	3-3-03
--------------------	-------	-----------------	--------